(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization** International Bureau



I 2001 DINATURI II DIDINA KIRIL DANIK ORBI ARRA 10 NI BURA KIRIL BINA BURA DINI BARK DIDINI RIKA BURA RIKA BURA

(43) International Publication Date 26 February 2004 (26.02.2004)

PCT

(10) International Publication Number WO 2004/016750 A2

(51) International Patent Classification7:

C12N

(21) International Application Number:

PCT/US2003/025399

- (22) International Filing Date: 14 August 2003 (14.08.2003)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/403,266

14 August 2002 (14.08.2002) US

- (71) Applicant (for all designated States except US): MACRO-GENICS, INC. [US/US]; 1500 East Gude Drive, Rockville, MD 20850 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KOENIG, Scott [US/US]; 10901 Ralston Road, Rockville, MD 20852 (US). VERI, Maria-Concetta [IT/US]; 7715 Goodfellow Way, Derwood, MD 20855 (US).
- (74) Agents: WEILD, David, III et al.; Pennie & Edmonds LLP, 1155 Avenue of the Americas, New York, NY 10036 (US).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FCYRIIB-SPECIFIC ANTIBODIES AND METHODS OF USE THEREOE

(57) Abstract: The present invention relates to antibodies or fragments thereof that specifically bind FcyRIIB, particularly human FCYRIIB, with greater affinity than said antibodies or fragments thereof bind FCYRIIA, particularly human FCYRIIA. The invention provides methods of enhancing the therapeutic effect of therapeutic antibodies by administering the antibodies of the invention to enhance the effector function of the therapeutic antibodies. The invention also provides methods of enhancing efficacy of a vaccine composition by administering the antibodies of the invention.